

What is claimed is:

- 1 1. A method for realizing dynamic adjustment of data bandwidth in transmission
2 equipment, comprising adding a control channel in a trunk link of the transmission
3 equipment for describing occupancy on time slots by a current service.

- 1 2. The method for realizing dynamic adjustment of data bandwidth in transmission
2 equipment of claim 1, wherein the control channel implements dynamic distribution on
3 time slots in PCM line under control of CPU.

- 1 3. The method for realizing dynamic adjustment of data bandwidth in transmission
2 equipment of claim 2, wherein the dynamic distribution on time slots is controlled by
3 channel control words written in the control channel, and the control channel comprises
4 one or more time slots.

- 1 4. The method for realizing dynamic adjustment of data bandwidth in transmission
2 equipment of claim 1, wherein the current service comprises voice service and data
3 service.

- 1 5. The method for realizing dynamic adjustment of data bandwidth in transmission
2 equipment of claim 1, wherein the method is applied in peer networking to realize
3 correct demultiplexing and multiplexing of different services.

1 6. A device for realizing dynamic adjustment of data bandwidth in transmission
2 equipment, comprising: a control word process circuit, a time slot distribution circuit
3 and a CPU interface circuit, wherein the control word process circuit is designed to
4 complete abstraction and insertion of control information in control channel of E1/T1
5 link; the time slot distribution circuit is designed to complete separating voice time slots
6 from Ethernet data time slots, and rebuilding data; the CPU interface circuit implements
7 controlling on time slot distribution.

1 7. The device for realizing dynamic adjustment of data bandwidth in transmission
2 equipment of claim 6, wherein the device further comprises High Level Data Link
3 Control (HDLC), Media Access Control (MAC) frame process circuit to implement
4 processing HDLC link for Ethernet data, checking integrity of MAC frame, comparing
5 and learning MAC addresses.

1 8. The device for realizing dynamic adjustment of data bandwidth in transmission
2 equipment of claim 6, wherein the time slot dynamic distribution circuit is controlled by
3 channel control words written in a control channel, and the control channel comprises
4 one or more time slots.

1 9. A method for realizing dynamic adjustment of data bandwidth in transmission
2 equipment, comprising:
3 informing a time slot distribution circuit by CPU of time slot numbers to be
4 occupied by a voice service according to voice call condition when a current service is
5 multiplexed to a direction of E1/T1 link;
6 releasing the time slots from data service by the time slot distribution circuit; and
7 distributing to the voice service;
8 informing the time slot distribution circuit by CPU of the time slot having been
9 released by the voice service after voice call finishes; and
10 distributing the time slots to Ethernet data service by the time slot distribution
11 circuit, thereby to implement dynamic adjustment of Ethernet data service.